## IN THE CLAIMS:

- 1. (Currently Amended) A method of coding a plurality of multimedia data comprising the following steps:
- an acquisition step, for converting said original multimedia data into one or several bitstreams;
- a structuring step, for capturing the different levels of information in said bitstream(s) by means of analysis and segmentation;
- a description step, for generating description data of the obtained levels of information;
- a coding step, allowing to encode the description data thus obtained;

wherein said description step comprises :

- a defining sub-step provided for storing a set of descriptors related to said plurality of multimedia data; and
- a description sub-step, provided for selecting the description data to be coded in accordance with every level of information as obtained in the structuring step;

and said set of descriptors includes at least a shape descriptor and a shape deformation descriptor, wherein the shape descriptor and shape deformation descriptor is based on Fourier descriptors.

- 2. (Currently Amended) A method as claimed in claim 1, of coding a plurality of multimedia data comprising the following steps:

  an acquisition step, for converting said original multimedia data into one or several bitstreams;
- a structuring step, for capturing the different levels of information in said bitstream(s) by means of analysis and segmentation;



a description step, for generating description data of

a coding step, allowing to encode the description data

the obtained levels of information;

thus obta	ined;
wherein s	aid description step comprises :
	- a defining sub-step provided for storing a set of
descripto	rs related to said plurality of multimedia data ; and
	- a description sub-step, provided for selecting the
descripti	on data to be coded in accordance with every level of
informati	on as obtained in the structuring step ;
	and said set of descriptors includes at least a shape
descripto	r and a shape deformation descriptor;
	wherein the shape descriptor is defined by means of the
following	characteristics :
-	Centroid $(C_x, C_y)$ : coordinates of the centroid of the
contour;-	
• .	Angle $\theta$ : angle between horizontal and main axis of
the conto	ur <u>;</u> -
-	Size of the original contour N : size of the contour
after res	ampling;-
-	Set of ordered Fourier coefficients $Z_{\mathbf{k}}$ : set of
invariant	Fourier coefficients :-
-	Size of the Fourier coefficients set P : size of the
preceding	set, with 1< P $\leq$ N, P being necessarily odd $_{\underline{i}}$ .
-	Scale : scale parameter:
<del>and</del>	the shape deformation descriptor is defined by means of
	wherein s  descripto  descripto  informati  descripto  following  contour;  the conto  after res  invariant  preceding

the following characteristics :

Normalized deviation of the scale : normalized

deviation of the scale parameter over the video sequence; -

```
-Maximal size of the original contours N_{	ext{max}} : the
             maximal size of the original contour sizes N over
             the video sequence; -
         N is an item of the shape descriptor; -
          Normalized deviations of each Fourier coefficient \sigma_{z'k}:
normalized deviations of each Fourier coefficient over the video
sequence; -
          Size of the set of normalized deviations of each
Fourier coefficient M : size of the preceding set.
3. (Currently Amended) A method as claimed in claim 2, wherein
the following C structure is associated to said shape descriptor
     typedef struct Shape Descriptor {
          /* Centroid */
          long center x;
          long center y;
        /* Angle */
         float theta;
        /* Size of the original contour, after resampling (N) */
        long size of contour;
       /* Set of Fourier coefficients */
        float *Fourier Coefficients;
       /* Size of the set of Fourier coefficients (P) */
      long size Fourier Descriptors Set ;
    } ;
```

and the following C structure is associated to said shape deformation descriptor :

```
/* Normalized deviation of scale */
float Deviation of Scale;
```

```
/* Maximal size of the original contours in the video
sequence (N max)
```

```
/* Normalized deviation on Fourier coefficients */
float *Deviation of Fourier coefficients;
```

/\* Size of the set of normalized deviations of Fourier
coefficients \*/

lng Size of Fourier Cefficients Set; } $\underline{\cdot}$ 

<sup>\*/</sup>long Maximal Size of Original contours;

- 4. (Currently Amended) For use in a coding device provided for encoding a plurality of multimedia data, computer-executable process steps provided to be stored on a computer-readable storage medium and comprising the following steps:
- an acquisition step, for converting said original multimedia data into one or several bitstreams;
- a structuring step, for capturing the different levels of information in said bitstream(s) by means of analysis and segmentation;
- a description step, for generating description data of the obtained levels of information;
- a coding step, allowing to encode the description data thus obtained;

wherein said description step comprises :

- a defining sub-step provided for storing a set of descriptors related to said plurality of multimedia data; and
- a description sub-step, provided for selecting the description data to be coded in accordance with every level of information as obtained in the structuring step;
- and said set of descriptors includes at least a shape descriptor and a shape deformation descriptor, wherein the shape descriptor and shape deformation descriptor is based on Fourier descriptors.
- 5. (Original) A computer program product for a multimedia data coding device, comprising a set of instructions which when loaded into said coding device lead it to carry out the process steps as claimed in claim 4.

- 6. (Original) A transmittable coded signal produced by encoding multimedia data according to a coding method as claimed in claim 1.
- 7. (Original) A method of decoding and processing a signal as claimed in claim 6, wherein said method comprises the following steps:
  - a decoding step ;
- a storing step, for storing the decoded signals;
- a search step, actuated by an user;
- a retrieval step, on the basis of the actuated search and the stored, decoded signals.